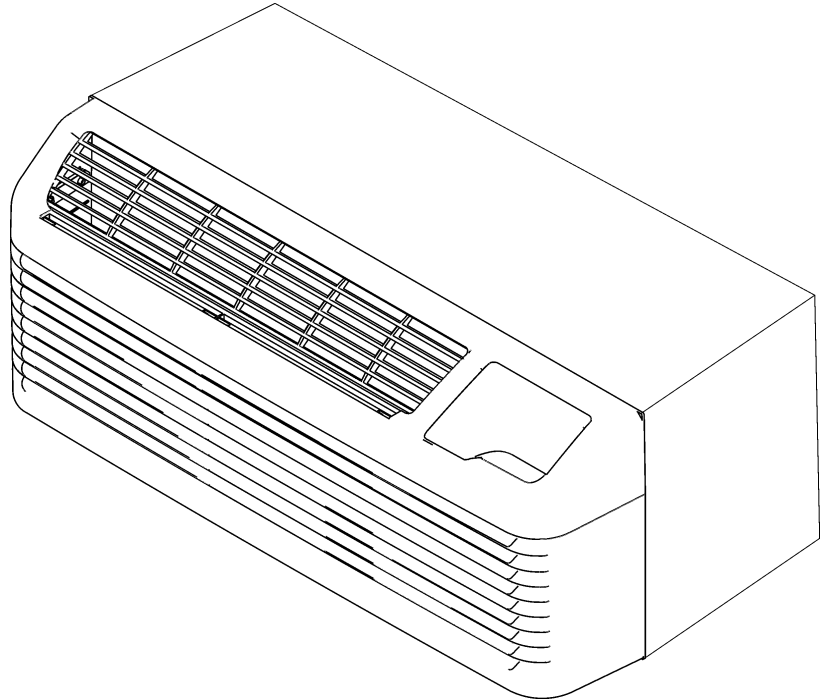


PTC123E Package Terminal Air Conditioner

PTC123E00AXXXAB
PTC123E00AXXXAC
PTC123E00CXXXAB
PTC123E00CXXXAC
PTC123E00DHXXAB
PTC123E00HRXXAB
PTC123E00HVXXAB
PTC123E00HXXXAB
PTC123E25AXXXAB
PTC123E25AXXXAC
PTC123E25CRXXAB
PTC123E25CRXXAC
PTC123E25CXXXAB
PTC123E25CXXXAC
PTC123E25RXXXAB
PTC123E35AXXXAB
PTC123E35AXXXAC
PTC123E35CRXXAB
PTC123E35CRXXAC
PTC123E35CXXXAB
PTC123E35DXXXAB
PTC123E35QXXXAC
PTC123E35RXXXAB
PTC123E35VXXXAB
PTC123E50AXXXAB
PTC123E50AXXXAC
PTC123E50CXXXAB
PTC123E50DXXXAB
PTC123E50DXXXAC
PTC123E50RXXXAB



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This manual is to be used by qualified technicians only.

This manual replaces RP-645D.

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Important Information

Index

Functional Parts List	3
Illustration and Parts	4 - 13

Views shown are for parts illustrations only, not servicing procedures

Text Codes:

AR - As Required

NA - Not Available

NS - Not Shown

00000000 - See Note

QTY - Quantity Example (QTY 3) (If Quantity not shown, Quantity = 1)

M - Model Example (M1) (If M Code not shown, then part is used on all Models)

Expanded Model Nomenclature:

Example

M1 - Model#1

M2 - Model#2

M3 - Model#3

Goodman Company, L.P. is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Goodman Company, L.P. also recommends contacting an authorized technician and using authorized factory parts.

Goodman Company, L.P. reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.

For assistance within the U.S.A. contact:

Homeowner Support

Goodman Company, L.P.

19001 Kermier Road

Waller, Texas 77484

877-254-4729-Telephone

713-863-2382-Facsimile

For assistance outside the U.S.A. contact:

International Division

Goodman Company, L.P.

19001 Kermier Road

Waller, Texas 77484

713-861-2500-Telephone

713-863-2382-Facsimile

Functional Parts

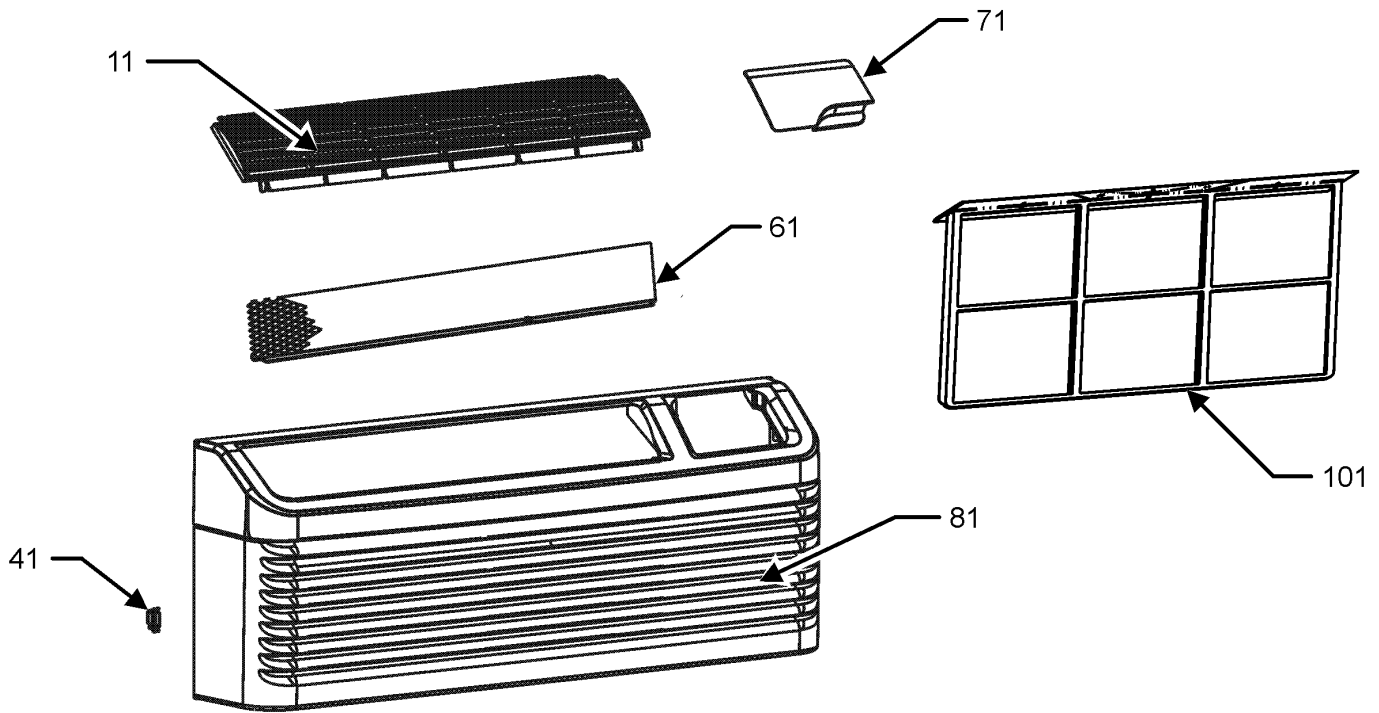
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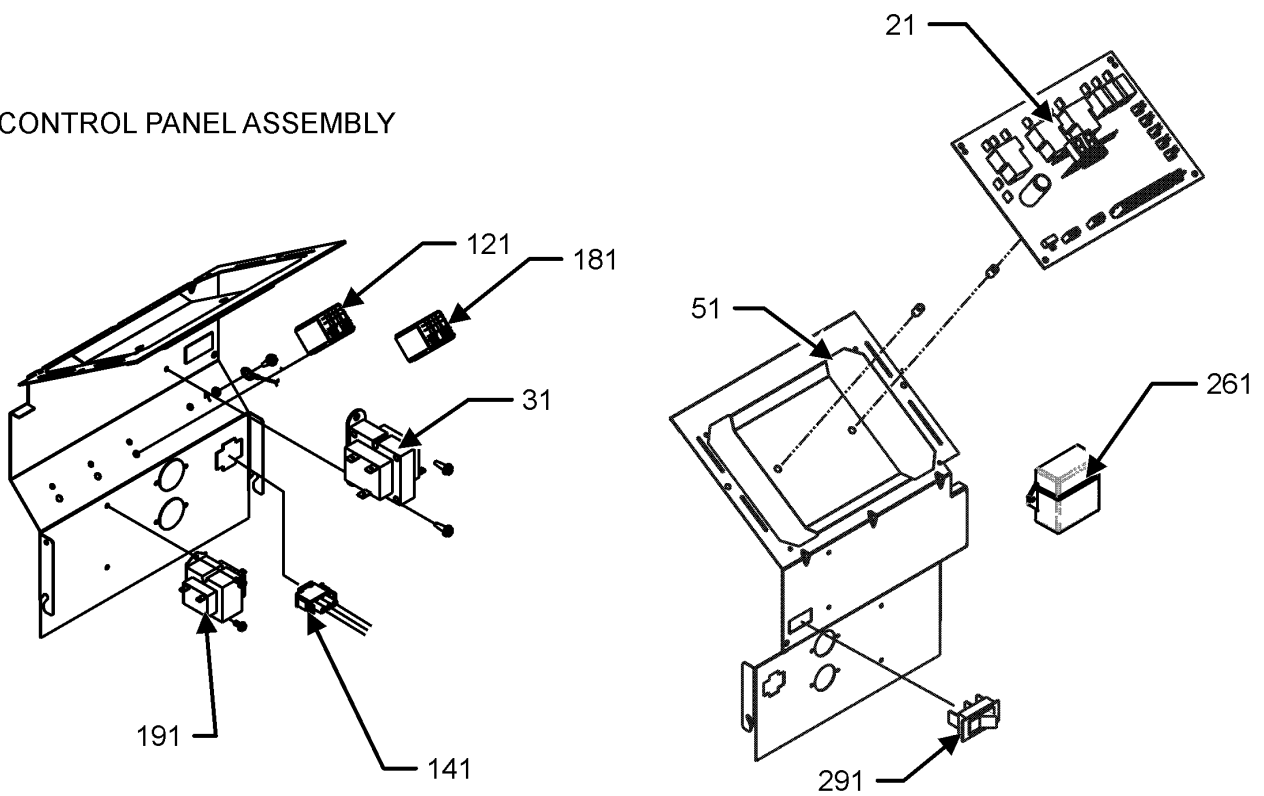
		Expanded Model Nomenclature
CAP020300450CS	CAPACITOR 2/30/450V/DUAL RD (M2, M4, M10, M12, M14, M17, M19, M22, M26, M29)	M1 - PTC123E00AXXXAB
CAP020000440RP	CAPACITOR 2/440V	M2 - PTC123E00AXXXAC
CAP030300440RS	CAPACITOR 3/30/440V/DUAL RD (M1, M3, M5, M6, M7, M8, M9, M11, M13, M15, M16, M18, M20, M21, M23, M24, M25, M27, M28, M30)	M3 - PTC123E00CXXXAB
44A282A	COMPRESSOR, RECHI	M4 - PTC123E00CXXXAC
RSKP0010	CONTROL BOARD M61 (M1, M2, M3, M4, M5, M7, M8, M9, M10, M13, M14, M16, M17, M20, M21, M22, M24, M25, M26, M27, M28, M29)	M5 - PTC123E00DHXXAB
RSKP0005	CONTROL PANEL COVER AND MEMBRANE	M6 - PTC123E00HRXXAB
0130P00059	CORD, 250VAC, 15A (LCD) (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15)	M7 - PTC123E00HVXXAB
0130P00058	CORD, 250VAC, 20A (LCD) (M16, M17, M18, M19, M20, M21, M22, M23, M24)	M8 - PTC123E00HXXXAB
0130P00061	CORD, 250VAC, 30A (LCD) (M25, M26, M27, M28, M29, M30)	M9 - PTC123E25AXXXAB
0130M00132	CUT-OUT SWITCH, HIGH PRESSURE	M10 - PTC123E25AXXXAC
0131P00035	FAN MOTOR, INDOOR (M1, M2, M3, M4, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)	M11 - PTC123E25CRXXAB
0131P00036	FAN MOTOR, INDOOR (M5, M6, M7, M8, M25, M26, M27, M28, M29, M30)	M12 - PTC123E25CRXXAC
0131P00014	FAN MOTOR, OUTDOOR (M1, M3, M5, M6, M7, M8, M9, M11, M13, M15, M16, M18, M20, M21, M23, M24, M25, M27, M28, M30)	M13 - PTC123E25CXXXAB
0131P00027	FAN MOTOR, OUTDOOR (M2, M4, M10, M12, M14, M17, M19, M22, M26, M29)	M14 - PTC123E25CXXXAC
0161P00055	FAN, CONDENSER	M15 - PTC123E25RXXXAB
0275P00019	HEATER ASSY (M9, M10, M11, M12, M13, M14, M15)	M16 - PTC123E35AXXXAB
0275P00038	HEATER ASSY (M16, M17, M18, M19, M20, M21, M22, M23, M24)	M17 - PTC123E35AXXXAC
0275P00039	HEATER ASSY (M25, M26, M27, M28, M29, M30)	M18 - PTC123E35CRXXAB
0130P00137	MOTOR (M5, M7, M21, M24, M28, M29)	M19 - PTC123E35CRXXAC
60343503	OVERLOAD PROTECTOR	M20 - PTC123E35CXXXAB
0130M00096	RELAY (M2, M4, M10, M12, M14, M17, M19, M22, M26, M29)	M21 - PTC123E35DXXXAB
C8873917	RELAY (HYDRONIC) (M5, M6, M7, M8)	M22 - PTC123E35QXXXAC
C8873932	RELAY (POWER VENT) (M5, M7, M21, M24, M28, M29)	M23 - PTC123E35RXXXAB
0130P00134	THERMISTOR - DISCHARGE	M24 - PTC123E35VXXXAB
0130P00077	THERMISTOR - INDOOR (M6, M11, M12, M15, M18, M19, M23, M30)	M25 - PTC123E50AXXXAB
0130P00047	THERMISTOR - INDOOR AMBIENT	M26 - PTC123E50AXXXAC
0130P00098	THERMISTOR - OUTDOOR AMBIENT (M6, M11, M12, M15, M18, M19, M23, M30)	M27 - PTC123E50CXXXAB
0130P00093	THERMISTOR, .375 CLIP, BLUE (M6, M11, M12, M15, M18, M19, M23, M30)	M28 - PTC123E50DXXXAB
0130P00033	THERMISTOR-INDOOR COIL	M29 - PTC123E50DXXXAC
0130M00329	TRANSFORMER 20VA 60HZ (M1, M2, M3, M4, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30)	M30 - PTC123E50RXXXAB
0130M00149	TRANSFORMER 240V/208V TO 24V, 40VA (M5, M6, M7, M8, M21, M24, M28, M29)	

Front Panel and Control Panel Assembly

FRONT PANEL ASSEMBLY



CONTROL PANEL ASSEMBLY

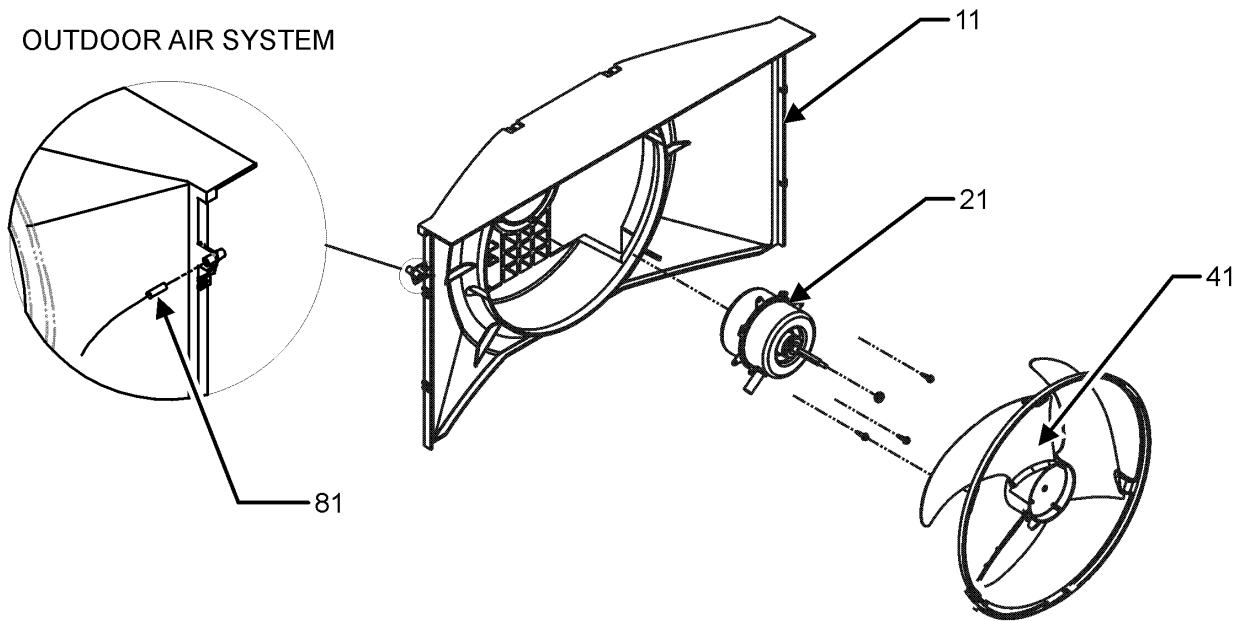


Front Panel and Control Panel Assembly

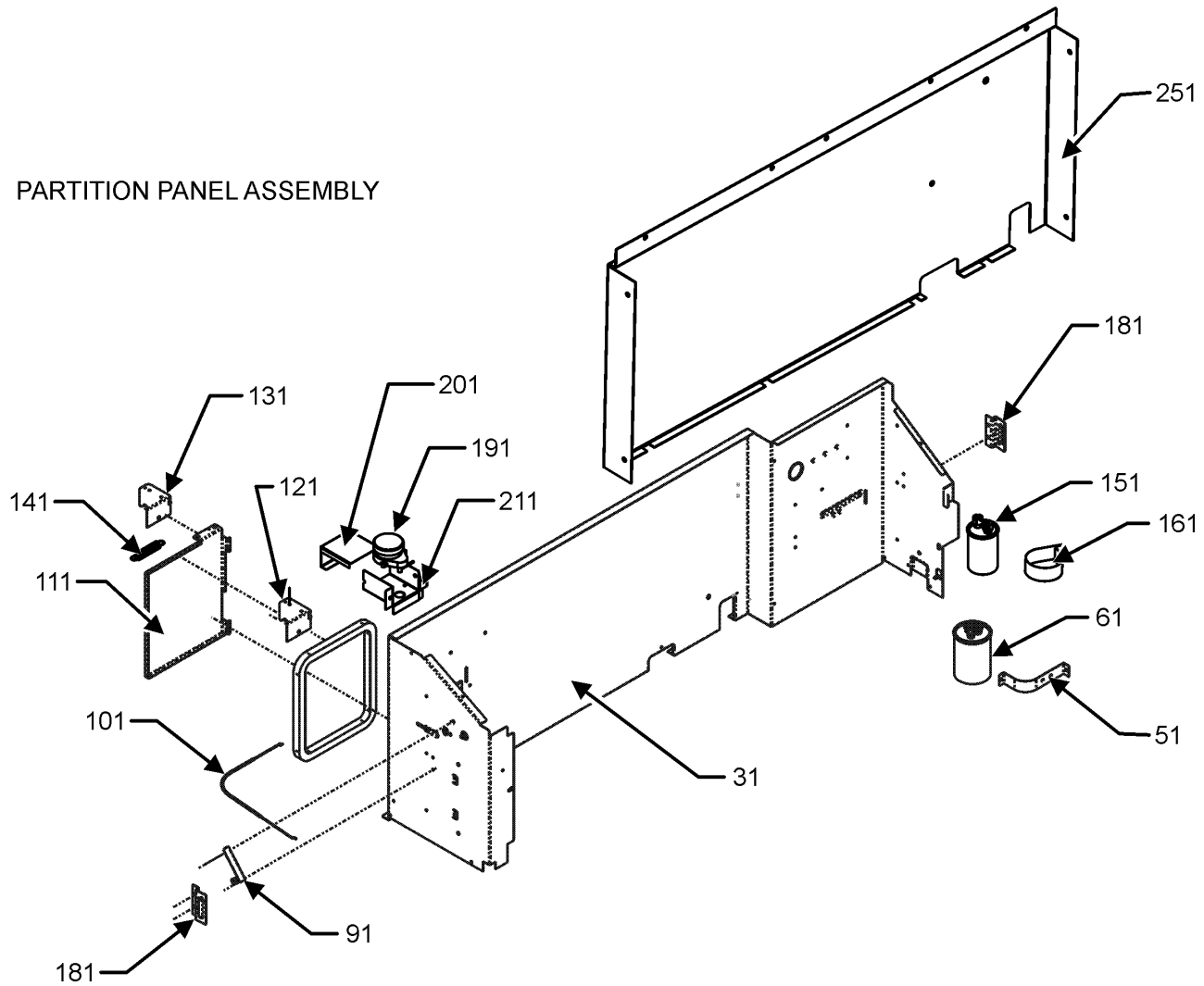
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:		Expanded Model Nomenclature	
11	0161P00048	FRONT-DICHARGE LOUVERS (M1, M2, M3, M4, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30)	M1 - PTC123E00AXXXAB M2 - PTC123E00AXXXAC M3 - PTC123E00CXXXAB M4 - PTC123E00CXXXAC M5 - PTC123E00DHXXAB M6 - PTC123E00HRXXAB M7 - PTC123E00HVXXAB M8 - PTC123E00HXXXAB M9 - PTC123E25AXXXAB M10 - PTC123E25AXXXAC M11 - PTC123E25CRXXAB M12 - PTC123E25CRXXAC M13 - PTC123E25CXXXAB M14 - PTC123E25CXXXAC M15 - PTC123E25RXXXAB M16 - PTC123E35AXXXAB M17 - PTC123E35AXXXAC M18 - PTC123E35CRXXAB M19 - PTC123E35CRXXAC M20 - PTC123E35CXXXAB M21 - PTC123E35DXXXAB M22 - PTC123E35QXXXAC M23 - PTC123E35RXXXAB M24 - PTC123E35VXXXAB M25 - PTC123E50AXXXAB M26 - PTC123E50AXXXAC M27 - PTC123E50CXXXAB M28 - PTC123E50DXXXAB M29 - PTC123E50DXXXAC M30 - PTC123E50RXXXAB
21	RSKP0010	CONTROL BOARD M61 (M1, M2, M3, M4, M5, M7, M8, M9, M10, M13, M14, M16, M17, M20, M21, M22, M24, M25, M26, M27, M28, M29)	
31	0130M00329	TRANSFORMER 20VA 60HZ (M1, M2, M3, M4, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30)	
41	0163P00025	CLIP (M1, M2, M3, M4, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30)	
51	0121P00130	PANEL, CONTROL	
61	0121P00073	SCREEN, DISCHARGE (M1, M2, M3, M4, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30)	
71	0261P00003	DOOR ASSY -AMANA- (M1, M2, M3, M4, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30)	
81	0261P00011	FRONT ASSY (M1, M2, M3, M4, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30)	
101	0161P00035	FILTER, RACK (M1, M2, M3, M4, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30)	
121	0130M00096	RELAY (M2, M4, M10, M12, M14, M17, M19, M22, M26, M29)	
121	C8873917	RELAY (HYDRONIC) (M5, M6, M7, M8)	
121	C8873932	RELAY (POWER VENT) (M5, M7, M21, M24, M28, M29)	
141	0259P00009	HARNESS, HYDR HT PTC (M5, M6, M7, M8)	
191	0130M00149	TRANSFORMER 240V/208V TO 24V, 40VA (M5, M6, M7, M8, M21, M24, M28, M29)	
261	0130P00104	ANTENNA (DIGITENNA) (M6, M11, M12, M15, M18, M19, M23, M30)	
291	B1337701	PADDLE SWITCH (M5, M7, M21, M24, M28, M29)	

Outdoor System and Partition Panel Assy

OUTDOOR AIR SYSTEM



PARTITION PANEL ASSEMBLY



Outdoor System and Partition Panel Assy

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

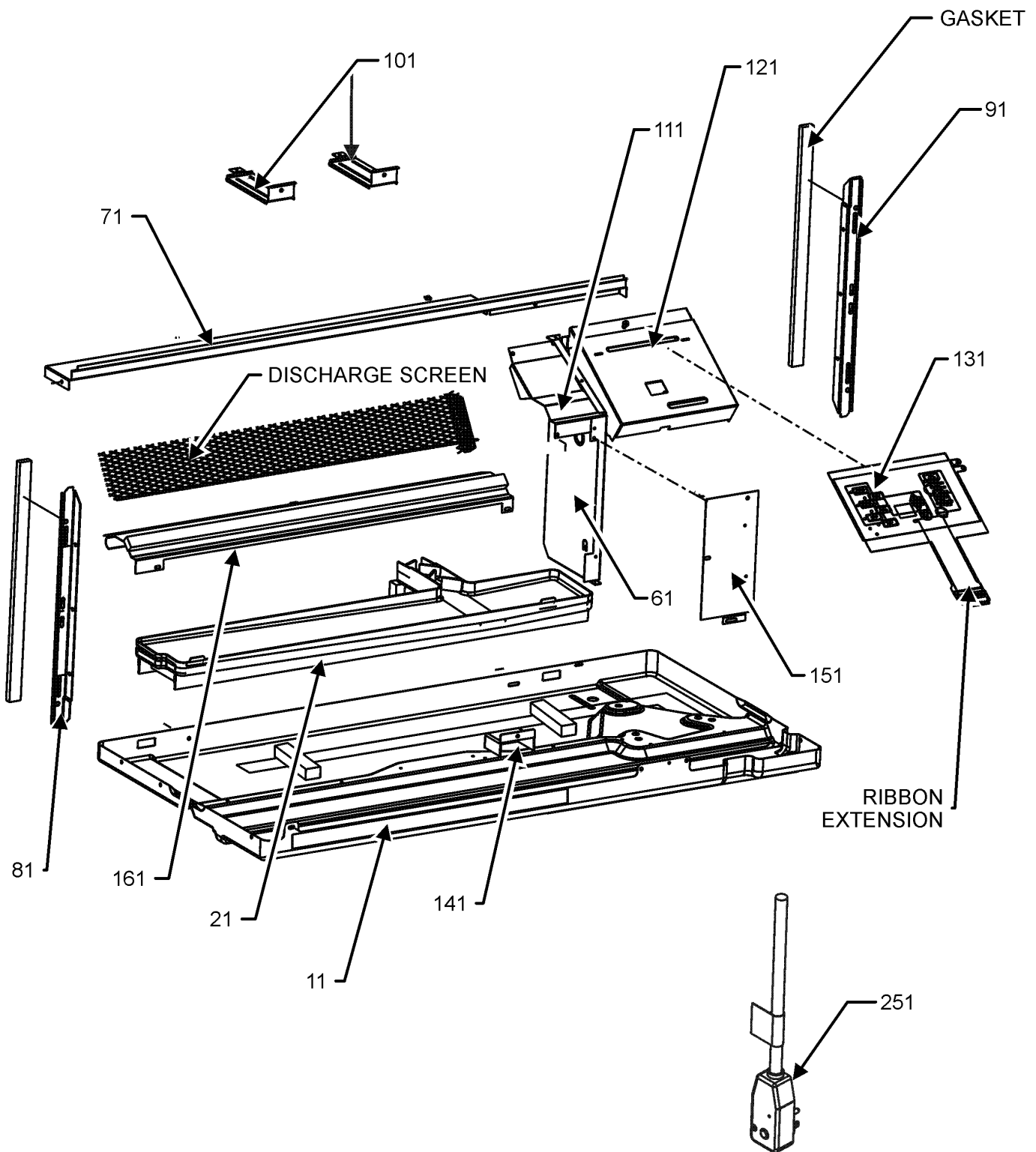
11	0161P00053	SHROUD, CONDENSOR
21	0131P00014	FAN MOTOR, OUTDOOR (M1, M3, M5, M6, M7, M8, M9, M11, M13, M15, M16, M18, M20, M21, M23, M24, M25, M27, M28, M30)
21	0131P00027	FAN MOTOR, OUTDOOR (M2, M4, M10, M12, M14, M17, M19, M22, M26, M29)
31	0121P00093	PANEL-PARTITION (M22)
31	0121P00108NG	PANEL-PARTITION (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M23, M24, M25, M26, M27, M28, M29, M30)
41	0161P00055	FAN, CONDENSER
51	C6300502	CAPACITOR STRAP
61	CAP020300450CS	CAPACITOR 2/30/450V/DUAL RD (M2, M4, M10, M12, M14, M17, M19, M22, M26, M29)
61	CAP030300440RS	CAPACITOR 3/30/440V/DUAL RD (M1, M3, M5, M6, M7, M8, M9, M11, M13, M15, M16, M18, M20, M21, M23, M24, M25, M27, M28, M30)
81	0130P00098	THERMISTOR - OUTDOOR AMBIENT (M6, M11, M12, M15, M18, M19, M23, M30)
91	11046302	LEVER ARM (M1, M2, M3, M4, M6, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M23, M25, M26, M27, M30)
101	0163P00019	CABLE (M1, M2, M3, M4, M6, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M23, M25, M26, M27, M30)
111	0121P00177NG	DOOR - PNT VENT PTC (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M23, M24, M25, M26, M27, M28, M29, M30)
121	0121P00079	BRACKET, VENT DOOR (M5, M7, M21, M24, M28, M29)
131	0121P00072NG	BRACKET, VENT DOOR-C (M1, M2, M3, M4, M6, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M23, M25, M26, M27, M30)
141	11166401	EXTENSION SPRING (M5, M7, M21, M24, M28, M29)
151	CAP020000440RP	CAPACITOR 2/440V
161	0163P00029	CAPACITOR CLAMP
181	11191703	PARTITION PANEL BRACKET (M1, M2, M3, M4, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30)
191	0130P00137	MOTOR (M5, M7, M21, M24, M28, M29)
201	11166201	POWER VENT COVER BRACKET (M5, M7, M21, M24, M28, M29)
211	11166101	POWER VENT MOTOR BRACKET (M5, M7, M21, M24, M28, M29)
251	0121P00091	PANEL-AUXILLIARY (M22)

Expanded Model Nomenclature

M1 - PTC123E00AXXXAB
M2 - PTC123E00AXXXAC
M3 - PTC123E00CXXXAB
M4 - PTC123E00CXXXAC
M5 - PTC123E00DHXXAB
M6 - PTC123E00HRXXAB
M7 - PTC123E00HVXXAB
M8 - PTC123E00HXXXAB
M9 - PTC123E25AXXXAB
M10 - PTC123E25AXXXAC
M11 - PTC123E25CRXXAB
M12 - PTC123E25CRXXAC
M13 - PTC123E25CXXXAB
M14 - PTC123E25CXXXAC
M15 - PTC123E25RXXXAB
M16 - PTC123E35AXXXAB
M17 - PTC123E35AXXXAC
M18 - PTC123E35CRXXAB
M19 - PTC123E35CRXXAC
M20 - PTC123E35CXXXAB
M21 - PTC123E35DXXXAB
M22 - PTC123E35QXXXAC
M23 - PTC123E35RXXXAB
M24 - PTC123E35VXXXAB
M25 - PTC123E50AXXXAB
M26 - PTC123E50AXXXAC
M27 - PTC123E50CXXXAB
M28 - PTC123E50DXXXAB
M29 - PTC123E50DXXXAC
M30 - PTC123E50RXXXAB

Base Pan Assembly

BASE PAN ASSEMBLY



Base Pan Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

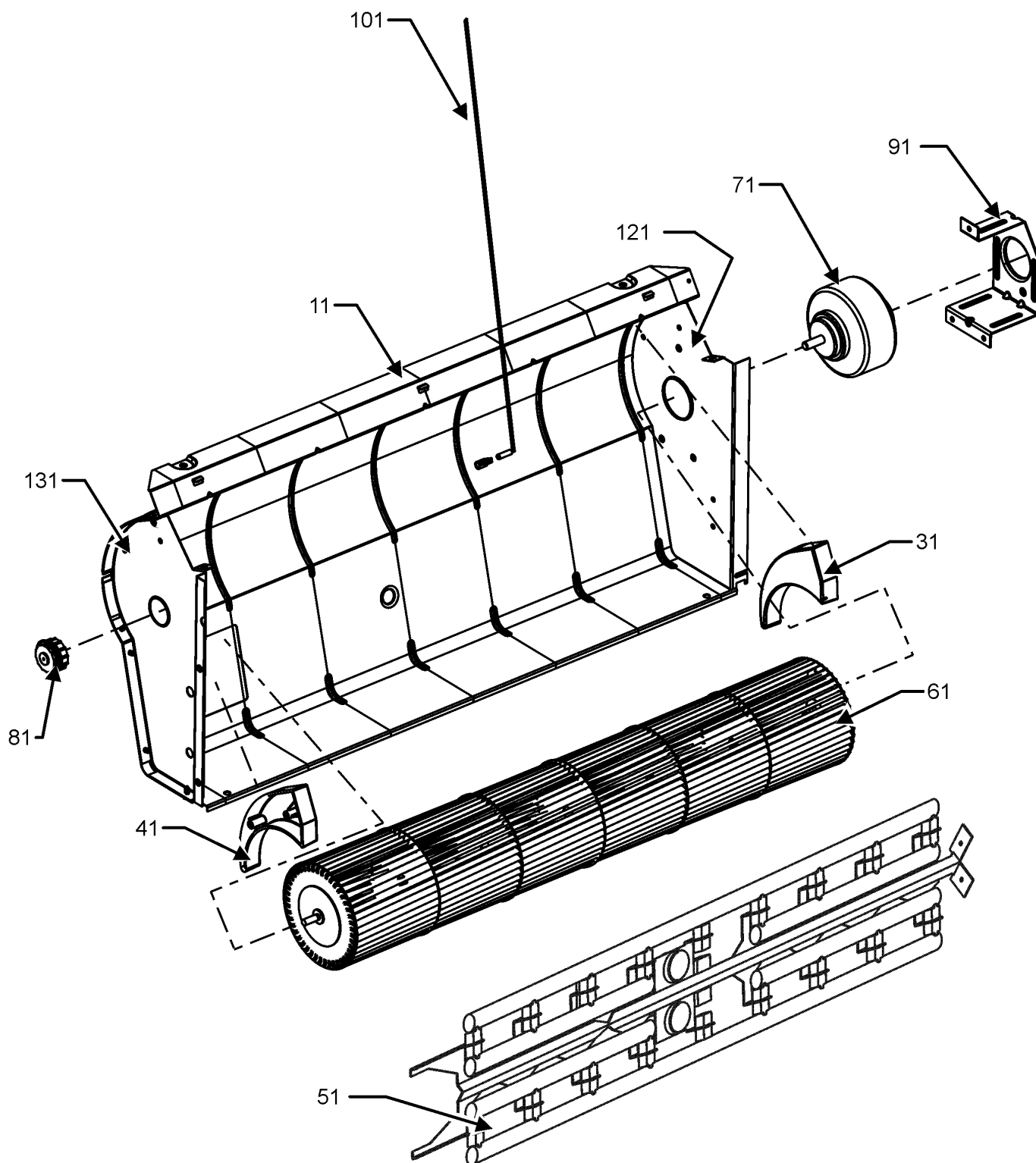
11	0121P00175DG	BASE PAN (M1, M2, M5, M6, M7, M8, M9, M10, M15, M16, M17, M21, M22, M23, M24, M25, M26, M28, M29, M30)
11	0121P00175NG	BASE PAN (M3, M4, M11, M12, M13, M14, M18, M19, M20, M27)
21	0161P00044	PLASTIC-DRAIN PAN
61	20403301	MID PARTITION PANEL
71	0121P00063NG	TOP, PARTITION PANEL
81	0121P00197	SEAL-L SIDE PTC
91	0121P00198	SEAL-R SIDE PTC
101	0121P00071NG	BRACE, TIE (QTY 2)
111	0121P00070DG	COVER, MOTOR
121	0121P00129	COVER-CONTROL PANEL
131	RSKP0005	CONTROL PANEL COVER AND MEMBRANE
141	0161P00016	PLASTIC-HOOD (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M23, M24, M25, M26, M27, M28, M29, M30)
151	20410801	ACCESS COVER
161	0121P00061DG	CUTOFF-SCROLL DG
251	0130P00059	CORD, 250VAC, 15A (LCD) (M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15)
251	0130P00058	CORD, 250VAC, 20A (LCD) (M16, M17, M18, M19, M20, M21, M22, M23, M24)
251	0130P00061	CORD, 250VAC, 30A (LCD) (M25, M26, M27, M28, M29, M30)
NS	0130P00054	MEMBRANE (CONTROL)

Expanded Model Nomenclature

M1 - PTC123E00AXXXAB
M2 - PTC123E00AXXXAC
M3 - PTC123E00CXXXAB
M4 - PTC123E00CXXXAC
M5 - PTC123E00DHXXAB
M6 - PTC123E00HRXXAB
M7 - PTC123E00HVXXAB
M8 - PTC123E00HXXXAB
M9 - PTC123E25AXXXAB
M10 - PTC123E25AXXXAC
M11 - PTC123E25CRXXAB
M12 - PTC123E25CRXXAC
M13 - PTC123E25CXXXAB
M14 - PTC123E25CXXXAC
M15 - PTC123E25RXXXAB
M16 - PTC123E35AXXXAB
M17 - PTC123E35AXXXAC
M18 - PTC123E35CRXXAB
M19 - PTC123E35CRXXAC
M20 - PTC123E35CXXXAB
M21 - PTC123E35DXXXAB
M22 - PTC123E35QXXXAC
M23 - PTC123E35RXXXAB
M24 - PTC123E35VXXXAB
M25 - PTC123E50AXXXAB
M26 - PTC123E50AXXXAC
M27 - PTC123E50CXXXAB
M28 - PTC123E50DXXXAB
M29 - PTC123E50DXXXAC
M30 - PTC123E50RXXXAB

Indoor Blower Assembly

INDOOR BLOWER ASSEMBLY



Indoor Blower Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
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Image 1:

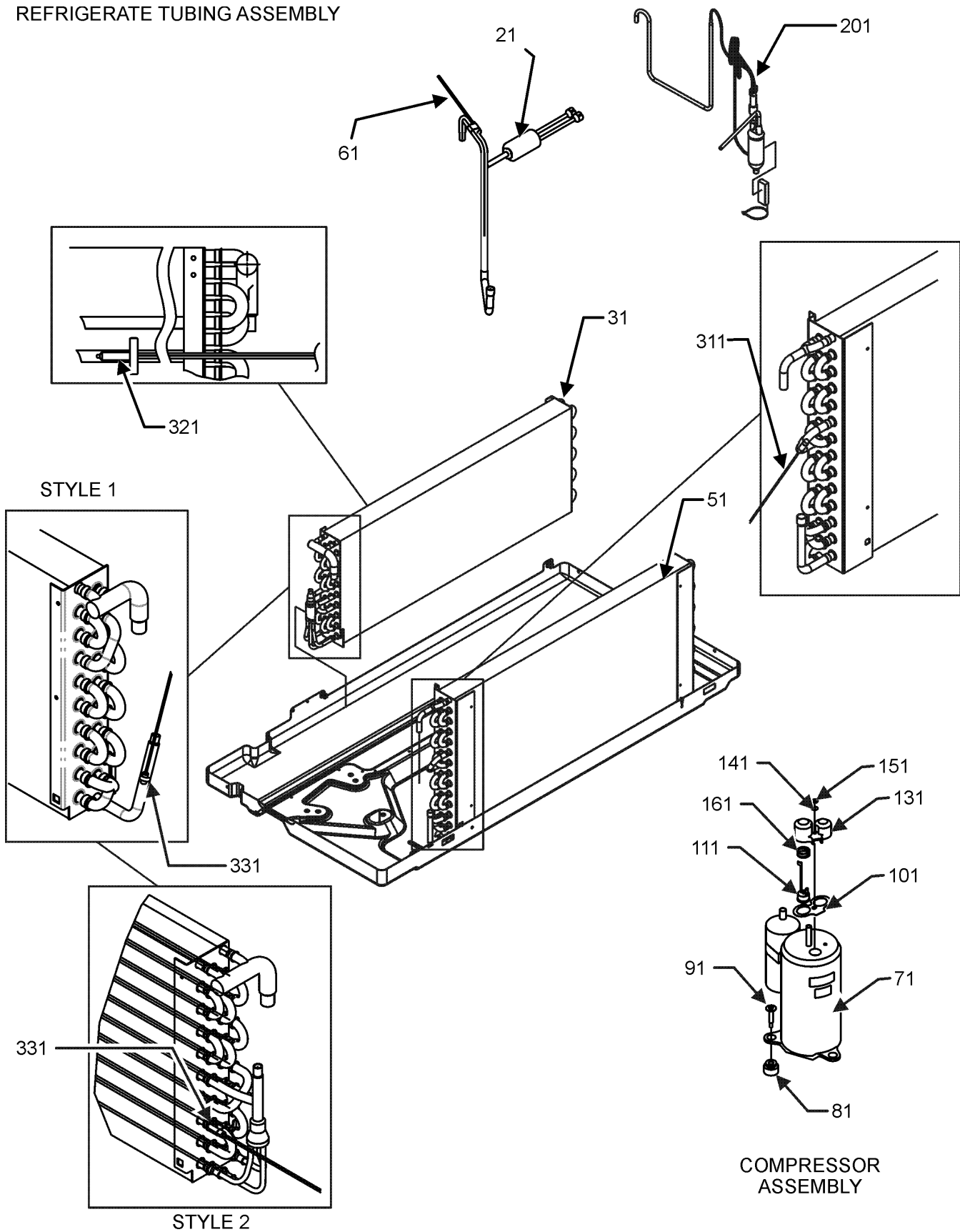
11	0121P00173DG	SCROLL
31	0161P00021	END CAP, RIGHT
41	0161P00022	END CAP, LEFT
51	0275P00019	HEATER ASSY (M9, M10, M11, M12, M13, M14, M15)
51	0275P00038	HEATER ASSY (M16, M17, M18, M19, M20, M21, M22, M23, M24)
51	0275P00039	HEATER ASSY (M25, M26, M27, M28, M29, M30)
61	0150P00004	WHEEL, BLOWER
71	0131P00035	FAN MOTOR, INDOOR (M1, M2, M3, M4, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24)
71	0131P00036	FAN MOTOR, INDOOR (M5, M6, M7, M8, M25, M26, M27, M28, M29, M30)
81	0163P00027	BEARING
91	0121P00048	BRACKET-MOTOR MOUNT
101	0130P00134	THERMISTOR - DISCHARGE
121	0121P00059DG	ENDPLATE-RH SCROLL
131	0121P00215DG	ENDPLATE- LH SCROLL

Expanded Model Nomenclature

M1 - PTC123E00AXXXAB
 M2 - PTC123E00AXXXAC
 M3 - PTC123E00CXXXAB
 M4 - PTC123E00CXXXAC
 M5 - PTC123E00DHXXAB
 M6 - PTC123E00HRXXAB
 M7 - PTC123E00HVXXAB
 M8 - PTC123E00HXXXAB
 M9 - PTC123E25AXXXAB
 M10 - PTC123E25AXXXAC
 M11 - PTC123E25CRXXAB
 M12 - PTC123E25CRXXAC
 M13 - PTC123E25CXXXAB
 M14 - PTC123E25CXXXAC
 M15 - PTC123E25RXXXAB
 M16 - PTC123E35AXXXAB
 M17 - PTC123E35AXXXAC
 M18 - PTC123E35CRXXAB
 M19 - PTC123E35CRXXAC
 M20 - PTC123E35CXXXAB
 M21 - PTC123E35DXXXAB
 M22 - PTC123E35QXXXAC
 M23 - PTC123E35RXXXAB
 M24 - PTC123E35VXXXAB
 M25 - PTC123E50AXXXAB
 M26 - PTC123E50AXXXAC
 M27 - PTC123E50CXXXAB
 M28 - PTC123E50DXXXAB
 M29 - PTC123E50DXXXAC
 M30 - PTC123E50RXXXAB

Refrigerate Tubing Assembly

REFRIGERATE TUBING ASSEMBLY



COMPRESSOR ASSEMBLY

Refrigerate Tubing Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

21	0130M00132	CUT-OUT SWITCH, HIGH PRESSURE
31	0202P00065	EVAP ASSY, 5/16, 3 ROW
51	0201P00079	CONDENSER ASSY (M1, M2, M5, M6, M7, M8, M9, M10, M15, M16, M17, M21, M22, M23, M24, M25, M26, M28, M29, M30)
51	0201P00083DG	CONDENSER ASSY PNT (M3, M4, M11, M12, M13, M14, M18, M19, M20, M27)
61	0130P00077	THERMISTOR - INDOOR (M6, M11, M12, M15, M18, M19, M23, M30)
71	44A282A	COMPRESSOR, RECHI
81	60130203	GROMMET - RECHI COMPRESSOR (QTY 3)
91	0163M00079	SCREW, SHOULDER (QTY 3)
101	60100103	TERMINAL GASKET
111	60343503	OVERLOAD PROTECTOR
131	60100314	TERMINAL COVER - RECHI COMP
141	60100201	WASHER - RECHI COMPRESSOR
151	60100401	TERMINAL NUT - RECHI COMP
161	60500101	OLP SPRING - RECHI COMPRESSOR
201	0210P00112	CAPILLARY WELDMENT
311	0130P00093	THERMISTOR, .375 CLIP, BLUE (M6, M11, M12, M15, M18, M19, M23, M30)
321	0130P00047	THERMISTOR - INDOOR AMBIENT
331	0130P00033	THERMISTOR-INDOOR COIL

Expanded Model Nomenclature

M1 - PTC123E00AXXXAB
M2 - PTC123E00AXXXAC
M3 - PTC123E00CXXXAB
M4 - PTC123E00CXXXAC
M5 - PTC123E00DHXXAB
M6 - PTC123E00HRXXAB
M7 - PTC123E00HVXXAB
M8 - PTC123E00HXXXAB
M9 - PTC123E25AXXXAB
M10 - PTC123E25AXXXAC
M11 - PTC123E25CRXXAB
M12 - PTC123E25CRXXAC
M13 - PTC123E25CXXXAB
M14 - PTC123E25CXXXAC
M15 - PTC123E25RXXXAB
M16 - PTC123E35AXXXAB
M17 - PTC123E35AXXXAC
M18 - PTC123E35CRXXAB
M19 - PTC123E35CRXXAC
M20 - PTC123E35CXXXAB
M21 - PTC123E35DXXXAB
M22 - PTC123E35QXXXAC
M23 - PTC123E35RXXXAB
M24 - PTC123E35VXXXAB
M25 - PTC123E50AXXXAB
M26 - PTC123E50AXXXAC
M27 - PTC123E50CXXXAB
M28 - PTC123E50DXXXAB
M29 - PTC123E50DXXXAC
M30 - PTC123E50RXXXAB